

**NJDEP TERM CONTRACT -SUBSURFACE  
REMEDIATION & RECOVERY SERVICES  
X-28967**

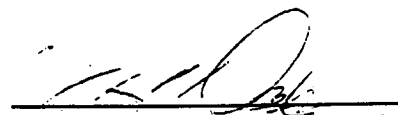
**COMBE FILL SOUTH LANDFILL  
CHESTER TOWNSHIP  
NEW JERSEY**

**BORING AND WELL DRILLING REPORT**

**Prepared by:**

**AccuTech Environmental Services, Inc.  
Cass Street at Highway 35  
Keyport, New Jersey 07735**

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**Thomas H. Davis  
Senior Associate  
NJDEP Cert No. 001074**

**July 28, 2000**

**511638**



**Combe Fill South Landfill  
Parker Road  
Chester Township, New Jersey**

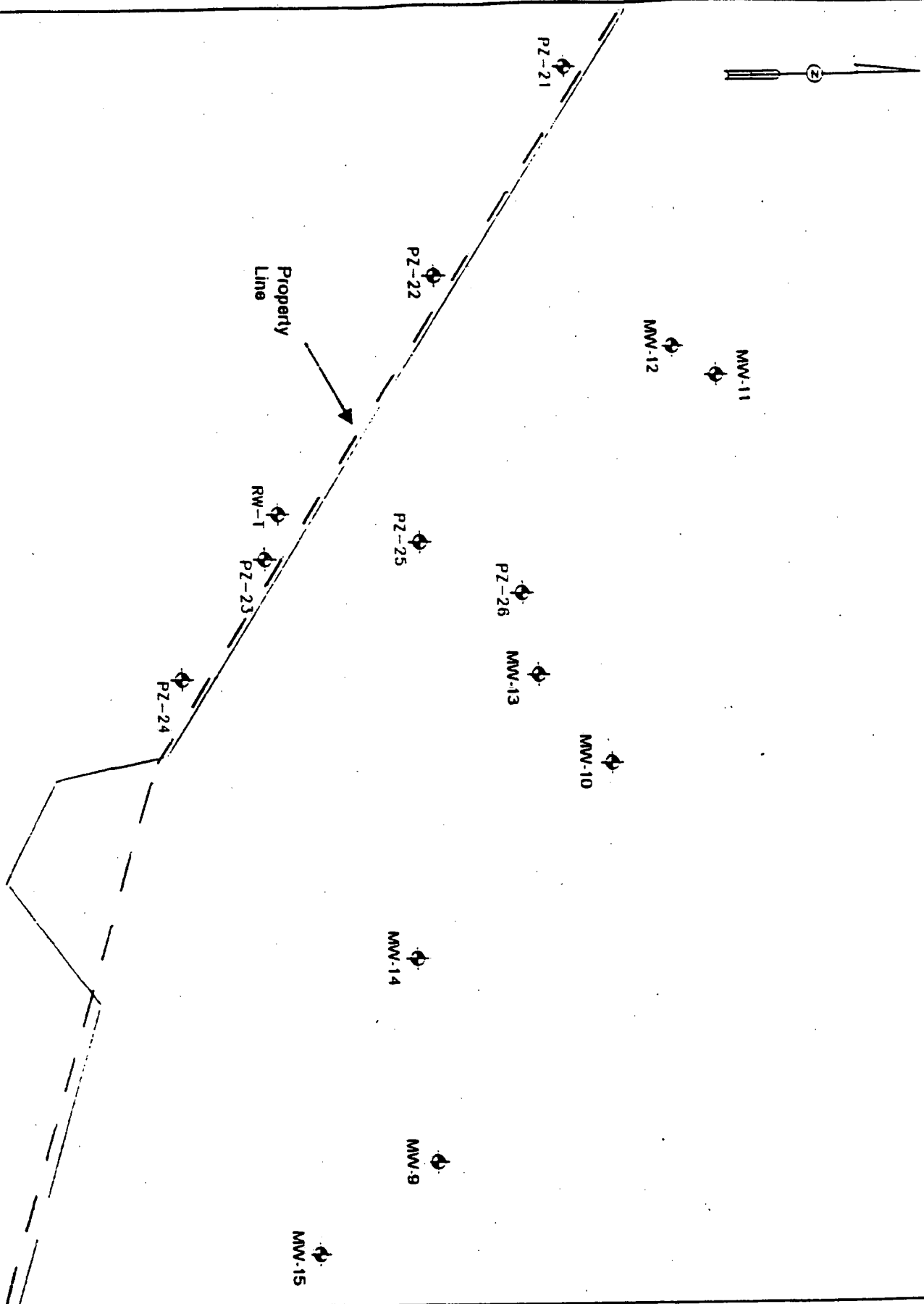
**Boring and Well Drilling Report**

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**1.0**

**AREA WIDE SITE PLAN**



**AccuTech**  
 ENVIRONMENTAL SERVICES  
 CROSS STREET @ HIGHWAY 35  
 KEYPORT, N.J. 07735 (908)739-6444

DRAWING TITLE: FIGURE 2 - MONITORING WELL LOCATIONS	
DRAWING No. 4026/FIG2.DWG	
DATE: 9/25/00	SCALE: 1" = 50'
DRAWN BY: SJC	
CHECKED BY: DAP	

PROJECT:

COMBE FILL SOUTH  
 PARKER ROAD  
 CHESTER, NEW JERSEY

**2.0**

**BORING AND WELL DRILLING LOGS**

ENVIRONMENTAL SPECIALISTS

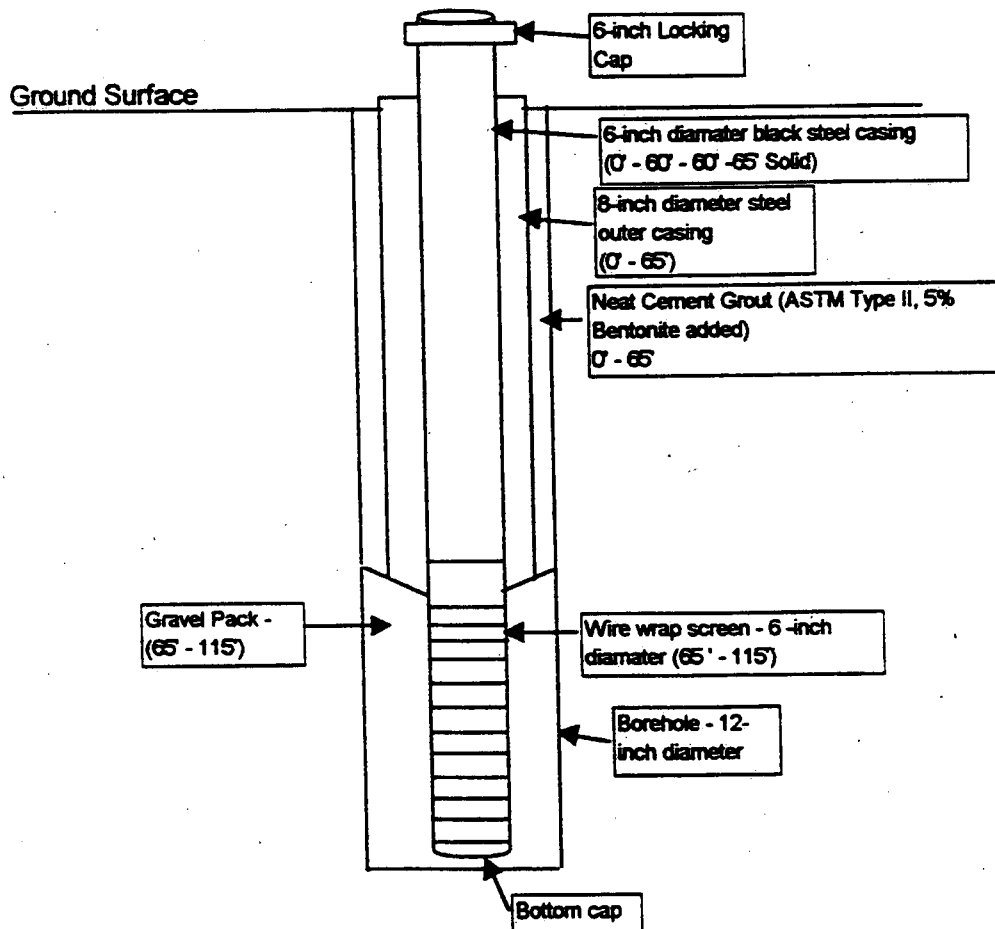
## WELL LOG

**WELL:** RWT      **DATE DRILLED:** 04/07/2000      **COORD #1:** 25.11.730      **PERMIT #1:** 05-56110  
**COORD #2:**      **PERMIT #2:**      **COUNTY:** Morris  
**LOCATION:** Combe Fall So. Landfill Super. 96 Parker Road, Chester, NJ      **WELL TYPE:** Recovery  
**OWNER:** NJDEP - Combe Fall South L. 401 East State Street, Trenton, NJ 08610  
**DRILLING METHOD:** Mud/Air Rotary  
**SAMPLING METHOD:**      **HOLE DIA:** 12", 12"  
**TOTAL DEPTH:** 115'  
**INNER CASING:** Steel/S St      **OUTER CASING:** Steel      **SCREEN TYPE 1:** Wire Wrap      **SCREEN TYPE 2:**      **DIAMETER:** 6"  
**DIAMETER:** 6"/6"      **DIAMETER:** 8"      **LENGTH 1:** 60'  
**LENGTH:** 60'/5'      **LENGTH 2:**      **SLOT SIZE:** .030  
**ST WELL:** 115'      **GAL PER MIN:** 20      **DEVELOPMENT METHOD:** Pump      **CASING SEAL:** Portland  
**RAVEL PK S2:** Morris #2      **STAT H2O LVL:** 40'      **DEVELOPMENT TIME:** 1/2 Hour      **OPEN HOLE:**  
**DRILLER:** Carmine DeCorso  
**SURFACE COMPLETION:** M

**DEPTH BELOW**      **BLOWS PER 6"**  
**SURFACE**      **ON SAMPLER**  
**FROM - TO**

## REMARKS / SOILS IDENTIFICATION

0' - 40' White-gray clay trace w/ sand & gravel.  
40' - 65' Weathered gneiss.  
65' - 115' Gneiss.



**3.0**

**NOTES AND OBSERVATIONS**

All work was completed as per the NJDEP's engagement specification. NJDEP Geologist Gregory Giles logged the boring and was responsible for decision making regarding well construction. At Mr. Giles direction, the overburden well casing was set one (1) foot into competent bedrock, at a dept of 65". No out of scope work was conducted.



**4.0**

**WELL PERMITS**

STATE OF NEW JERSEY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
TRENTON, NJ

Permit No. 2556113

Mail to:  
NJDEP  
Bureau Water Allocation  
CN 426  
NJ 08625-0426

MONITORING WELL PERMIT  
VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 25.11.732

Owner NJDEP - COMBE FILL SO. LF  
Address 401 EAST STATE ST.  
TRENTON NJ 08625  
Name of Facility COMBE FILL SOUTH  
Address 96 PARKER ROAD  
CHESTER TWP

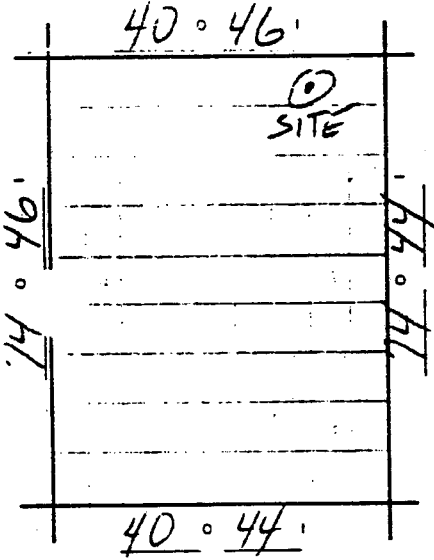
Driller Summit Drilling Co., Inc.  
Address Central Jersey Industrial Park  
Chimney Rock Road, Building 9W  
Bound Brook, NJ 08805

Diameter of Well(s) <u>6</u> Inches	Proposed Depth of Well(s) <u>120</u> Feet
# of Wells Applied for (max. 10) <u>1</u>	Will pumping equipment be installed? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
Type of Well (see reverse) <u>RECOVERY</u>	If Yes, give pump capacity <u>5</u> cumulative GPM

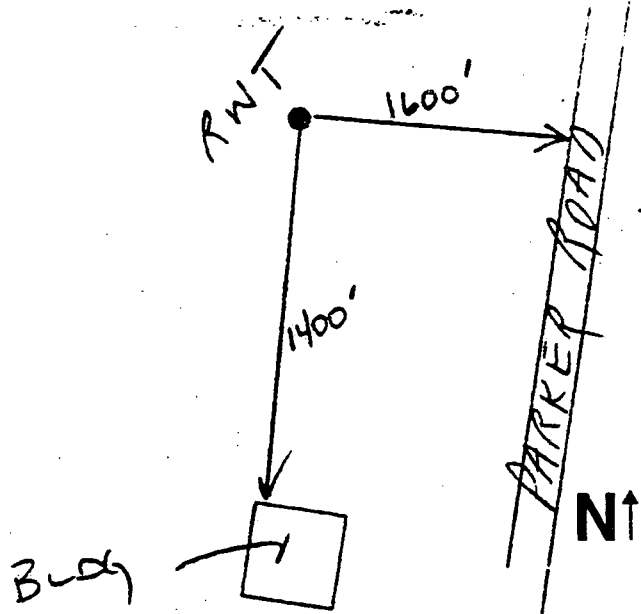
LOCATION OF WELL(S)

Lot # <u>15</u>	Block # <u>37</u>	Municipality <u>CHESTER</u>	County <u>MORRIS</u>
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State Atlas Map No. 25



Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ Spill Site
- ☐ ISRA Site
- ☒ CERCLA (Superfund) Site
- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) \_\_\_\_\_

CASE I.D. Number \_\_\_\_\_

This Space for Approval Stamp

WELL PERMIT APPROVED  
N.J.D.E.P.

MAR 29 2000

BUREAU OF WATER ALLOCATION

FOR D.E.P. USE ☐ Issuance of this permit is subject to the conditions attached. (see next page)  
☐ For monitoring purposes only  
☐ The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

5 REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT.  
In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.  
Date 3-27-00 Signature of Driller Albert Bambace Registration No. M13751  
Signature of Owner Thomas J. [Signature]  
COPIES: Water Allocation — White FOR Health Dept. — Yellow Owner — Blue Driller — White

# MONITORING WELL RECORD

Well Permit No. 25 - 56113

Atlas Sheet Coordinates 25: 11: 732

01 IDENTIFICATION - Owner NJDEP-CORBE HILL SOILS  
Address 401 EAST STATE ST  
City TRENTON State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. RWT  
County MORRIS Municipality CHESTER TWP. Lot No. 15 Block No. 37  
Address 96 PARKER RD

DATE WELL STARTED \_\_\_\_/\_\_\_\_/\_\_\_\_  
DATE WELL COMPLETED \_\_\_\_/\_\_\_\_/\_\_\_\_

TYPE OF WELL (as per Well Permit Categories) \_\_\_\_\_ RECOVERY \_\_\_\_\_

Regulatory Program Requiring Well \_\_\_\_\_ Case I.D.# \_\_\_\_\_

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Acadach Tele. # \_\_\_\_\_

## WELL CONSTRUCTION

Total depth drilled 115 ft.  
Well finished to 115 ft.

Borehole diameter: Top 12 in.  
Bottom 12 in.

Well was finished: ☐ above grade  
☒ flush mounted

If finished above grade, casing height (stick up) above land surface \_\_\_\_\_ ft.

Wavel protective casing installed?  
 [X] No

Static water level after drilling 40 ft.

Water level was measured using 16.00

Well was developed for 112 hours  
at 20 gpm.

Method of development Punio

Was permanent pumping equipment installed? ☐ Yes ☒ No

**Pump capacity** \_\_\_\_\_ gpm

Pump type: \_\_\_\_\_

Drilling Fluid \_\_\_\_\_ Type of Rig Gas Pore

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

*I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.*

Drilling Company SUMMIT WELL DRILLING CO/ INC

Well Driller (Print) Channing Delo

I \_\_\_\_\_'s Signature (Gemma M. Brown)

Registration No. T-1210 Date 5/11/00

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	60	6	Steel	19 lbs
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	65	8 1/2	Steel	19 lbs
Open Hole or Screen (No. Used, 020)	65	115	6	wire wrap	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	65	115		Mixed #2	
Grout	0	65		Neat Cement Bentonite	1128 lbs. 60 lbs.

Grouting Method Tremie  
Drilling Method Mud-Air Rotary

## GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

See Attached:

5.0

**WELL CERTIFICATION FORM-B**

# MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee:

Name of Facility:

Location: -

NJPDES Number: NJ00

NJDEP

Combe Fill South

Chester, New Jersey

or ECRA Case Number:

## LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

This number must be permanently affixed to the well casing.

Longitude (to nearest tenth second):

West 74° 44' 16.7"

Latitude (to nearest tenth second):

North 40° 46' 21.3"

Elevation of Top of Inner Casing (cap off)

(one-hundredth of a foot):

819.25 TOP STEEL CASE

Source of elevation datum (benchmark, etc.) and

Source: WELL PZ-21 ON SITE

elevation (if an alternate datum has been approved  
by the Department, identify here and give  
approximated elevation):

Elevation: 828.10

Owners Well Number (as shown on application or plans):

RW-T

Elevations are to be determined by double run, three wire leveling methods using balanced sights, commencing from a well marked and described point. This beginning point shall either be derived from Federal or State benchmarks if not more than 1000 feet from the site or, if the Department has approved an alternate datum, based on an assumed datum of 100. Tolerances should meet third order standards, which are 0.05 ft x (mile)<sup>1/2</sup>.

For sections less than 0.1 miles, let miles = 0.1.

## AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

  
\_\_\_\_\_  
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

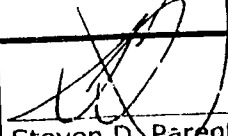
STEVEN D. PARENT,  
N.J. LICENSE NO. 36269

DESIGNATION	ELEVATION
MM-14 TOP CASE	816.29
MM-14 GROUND	813.83
RW-T TOP CASE	819.25
RW-T GROUND	818.01
PZ-21 TOP PVC	828.10
PZ-21 TOP CASE	828.29
PZ-21 GROUND	825.86
PZ-22 TOP PVC	823.48
PZ-22 TOP CASE	824.09
PZ-22 GROUND	821.56
PZ-23 TOP PVC	819.16
PZ-23 TOP CASE	819.35
PZ-23 GROUND	817.58
PZ-24 TOP PVC	817.16
PZ-24 TOP CASE	817.42
PZ-24 GROUND	816.46

PARKER ROAD

NOTES:

1. VERTICAL DATUM NAVD 1988.
2. FIELD SURVEY PERFORMED ON JUNE 9, 2000.

 <b>Steven D. Parent</b> Professional Land Surveyor N.J. Lic: 36269	<b>Christian M. Kastrud</b> Professional Engineer N.J. Lic: 41612	DATE 9/15/00	Dr. D.J.U.	CHK. SDP	SCALE 1" = 50'	JOB No. 00-673
		<b>DK CONSULTING, L.L.C.</b> BRIDGEWATER BUSINESS PARK BLDG 9-W, CHIMNEY ROCK ROAD BOUND BROOK, NEW JERSEY 08805 PHONE 732.764.0100 FAX 732.764.0990				
<b>MONITORING WELL LOCATION MAP</b> FOR: <b>ACCUTECH ENVIRONMENTAL SERVICES</b> SITE: <b>COMBE FILL SOUTH</b> <b>PARKER ROAD</b> <b>CHESTER, NEW JERSEY</b>						

This survey subject to any assessment of record and other pertinent facts which an accurate title search might disclose. In no event shall the surveyor be liable for any error or omission in this survey. The accuracy of this survey is guaranteed by the surveyor. No liability is assumed by the surveyor for the use of this survey by any party not shown on the map. No liability is assumed by the surveyor for the use of this survey with survey officials.